



MSMR

Medical Surveillance Monthly Report

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Data in the MSMR is provisional, based on reports and other sources of data available to the Medical Surveillance Activity. Notifiable conditions are reported by date of onset (or date of notification when date of onset is absent). Only cases submitted as confirmed are included.

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Editorial Comment

After six months of the MSMR, it is time to share some observations. First, we instituted the "military MMWR" based on strong perceptions of demand for such a product. Our perceptions have been validated. We appreciate the congratulations, complements, and widespread encouragement. Just as much, we value the constructive criticisms. We need feedback, both positive and negative, to continuously improve the quality and refine the focus of the MSMR.

Second, without a concerted effort, mainly through word of mouth, we have significantly expanded distribution of the MSMR. We are pleased to send the MSMR to individuals, offices, and agencies — within and outside the Army — who require knowledge of or have interest in data regarding the health, fitness, disabilities, and obstacles to the readiness of America's Army.

Third, over the past six months, compliance with reporting notifiable conditions through the automated system has significantly increased. Today, almost all medical activities worldwide have used the system to report cases. In addition, the quality of reports has improved. Diagnoses and supporting information are more often complete, timely, and accurate when reported. Still, frequencies, rates and trends of notifiable conditions are not as informative when ascertainment and reporting are slow, unreliable, or inconsistent. Progress has been made — there is much room for improvement.

Fourth, during the first six months of the MSMR, there have been various "supplements" to the standard reports, graphs, and tables. The supplements are designed as periodic updates of subjects of continuous interest. Supplements have reported information on active Army force strength (quarterly), notifiable conditions (quarterly), HIV-1/AIDS (semiannually), and hospitalizations (annually). We solicit feedback regarding subject areas, timing, content, and formats of supplements.

Finally, we sincerely thank those who contributed reports or editorial comments. The interest and value of the MSMR depend on input from the field. If there has been a disappointment in our first six months, it relates to the lack of spontaneity of submissions for publication. Most reports published to date have been solicited. With due recognition of time pressures we all face, we suggest that it is an important duty to inform colleagues of events of significant public health or military operational interest. The MSMR was designed as a tool to accomplish this duty. Please take it seriously ... and don't forget to write!

JB

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Current Trends**Adenovirus Serosurvey, Basic Trainees**

Although Army ARD rates have dropped dramatically in the past 20 years, the potential for outbreaks persists. Last year the ARD threat was particularly high due to a shortage of adenovirus vaccine. To assess the prevalence of susceptibility to vaccine-preventable adenovirus disease (types 4 and 7) in new basic trainees, a serosurvey was undertaken by the Directorate of Epidemiology and Disease Surveillance at CHPPM and the Division of Preventive Medicine at WRAIR. Three hundred nine randomly selected new recruit serum samples were sent for antibody testing by quantitative colorimetric microneutralization assay at the California Depart-

ment of Health Services Viral and Rickettsial Disease Laboratory. Eighty two of the specimens have been processed to date.

The data summarized in table 1 (see page 7) are the results of a preliminary sample. The summary should be viewed with caution, since it may not be representative of the entire sample. A titer level greater than or equal to 1:10 was considered over 50% protective.

Editorial Comment: Reports of adenovirus vaccine shortage due to an hiatus in production (MSMR, April 1995) and an adenovirus type 4 outbreak at Fort

Continued on page 7

Guidelines for 1995 - 1996 Influenza Immunization*

- Influenza immunization is mandatory (unless medically contraindicated) for all active duty military and reservists on active duty for 30 days or more during the influenza season.
- In accordance with the U.S. Public Health Service ACIP recommendations, influenza immunization should be considered for the following high-risk groups:
 - Persons 65 years of age or older.
 - Residents of nursing homes and other chronic-care facilities housing persons of any age with chronic medical conditions.
 - Adults and children with chronic disorders of the pulmonary or cardiovascular system, including children with asthma.
 - Adults and children who require regular medical follow-up or hospitalization during the preceding year because of chronic metabolic diseases (including diabetes mellitus), renal dysfunction, hemoglobinopathies, or immunosuppression (including immunosuppression caused by medication)
 - Children and teenagers who are receiving long-term aspirin therapy and therefore might be at risk of developing Reye Syndrome after influenza.
 - Household members (including children) of persons in one of the above high risk groups.
- Civilian hospital / clinic employees (e.g., physicians, physician assistants, nurses and other health care providers in direct patient care) working in Army MTFs.
- Pregnant women who have other medical conditions that increase their risk for complications of influenza.
- Patients infected with HIV.

**Memorandum, CDRMEDCOM, Fort Sam Houston, TX (DASG-ZA), 29 Sep 95,
subject: 1995 - 96 Influenza Immunization Guidelines*

TABLE I. Cases of selected notifiable conditions, United States Army.*
September, 1995

Reporting MTF/Post**	Total number of reports submitted September 1995	Environmental Injuries			Viral Hepatitis			Malaria	Varicella	
		Active Duty		CO intox.	A	B	C	Active Duty	Active Duty	Other Adult
		Heat	Cold							
		Cum. 1995	Cum. 1995	Cum. 1995	Cum. 1995	Cum. 1995	Cum. 1995	Cum. 1995	Cum. 1995	Cum. 1995
NORTH ATLANTIC HSSA										
Walter Reed AMC	36	-	-	-	3	5	-	1	5	3
Aberdeen Prov. Ground	17	-	-	-	1	-	-	-	-	-
FT Belvoir, VA	28	1	-	-	-	1	-	-	1	1
FT Drum, NY	15	4	21	-	-	-	-	1	14	1
FT Eustis, VA	24	-	-	-	-	-	-	-	3	-
FT Knox, KY	46	-	-	-	-	-	1	1	-	-
FT Lee, VA	4	5	-	-	-	-	-	-	10	-
FT Meade, MD	0	-	-	-	-	-	-	-	-	-
USMA, West Point, NY	0	-	-	-	-	-	-	-	-	-
CENTRAL HSSA										
Fitzsimons AMC	2	-	-	-	1	1	-	-	3	1
FT Carson, CO	60	-	-	-	-	-	-	-	7	-
FT Leonard Wood, MO	22	3	1	-	-	1	-	1	23	4
FT Leavenworth, KS	2	-	-	-	-	-	-	-	-	-
FT Riley, KS	17	11	1	-	-	-	-	-	-	-
SOUTH CENTRAL HSSA										
Brooke AMC	0	-	-	-	2	-	-	1	-	-
FT Hood, TX	495	14	-	-	1	2	-	1	26	2
FT Polk, LA	14	5	-	-	-	-	-	-	-	-
FT Sill, OK	28	19	-	3	-	3	-	1	-	-
Panama	10	4	-	-	5	2	1	-	-	-
SOUTHEAST HSSA										
Eisenhower AMC	27	-	-	-	-	1	2	-	1	-
FT Benning, GA	11	26	14	-	-	-	-	1	1	-
FT Bragg, NC	4	8	-	-	-	-	-	-	-	-
FT Campbell, KY	0	-	-	-	1	-	1	-	2	-
FT Jackson, SC	16	-	-	-	-	-	-	-	9	-
FT McClellan, AL	4	1	-	-	-	-	-	-	-	-
FT Rucker, AL	0	3	-	-	-	-	-	-	-	-
FT Stewart, GA	0	-	-	-	-	-	-	-	-	-
SOUTHWEST HSSA										
Wm Beaumont AMC	0	-	-	-	-	3	-	-	3	2
FT Huachuca, AZ	0	-	-	-	-	-	-	-	-	-
FT Irwin, CA	0	-	-	-	-	-	-	-	-	-
NORTHWEST HSSA										
Madigan AMC	1	-	-	-	-	3	-	-	-	-
FT Wainwright, AK	0	-	17	-	-	-	-	-	-	-
PACIFIC HSSA										
Tripler AMC	42	4	-	-	-	3	-	5	-	-
OTHER LOCATIONS										
Europe	0	2	4	2	-	2	-	-	6	1
Korea	4	2	8	-	-	3	-	-	20	-
Total	929	112	66	5	14	30	5	13	134	15

* Based on date of onset.

** Reports are included from main and satellite clinics. Not all sites reporting.

Date of Report: 7-Oct-95

TABLE I. Cases of selected notifiable conditions, United States Army* (continued)
September, 1995

Reporting MTF/Post**	Salmonellosis			Shigella			Campylobacteriosis			Tuberculosis	
	Active Duty	Other		Active Duty	Other		Active Duty	Other		Active Duty	Other
		Adult	Child		Adult	Child		Adult	Child		
	Cum. 1995	Cum. 1995	Cum. 1995	Cum. 1995	Cum. 1995	Cum. 1995	Cum. 1995	Cum. 1995	Cum. 1995	Cum. 1995	Cum. 1995
NORTH ATLANTIC HSSA											
Walter Reed AMC	5	2	1	-	1	1	1	3	-	-	-
Aberdeen Prov. Ground	-	-	-	-	-	-	-	-	-	-	-
FT Belvoir, VA	1	3	3	-	1	1	2	3	1	-	-
FT Drum, NY	2	-	2	-	-	1	-	1	-	-	-
FT Eustis, VA	-	-	-	1	-	-	-	-	-	-	-
FT Knox, KY	1	-	-	-	-	-	-	1	1	-	-
FT Lee, VA	-	-	-	-	-	-	-	-	-	-	-
FT Meade, MD	-	-	-	-	-	-	-	-	-	-	-
USMA, West Point, NY	-	-	-	-	-	-	-	-	-	-	-
CENTRAL HSSA											
Fitzsimons AMC	-	-	-	-	-	-	-	-	-	-	-
FT Carson, CO	1	2	1	1	-	1	1	1	1	-	-
FT Leonard Wood, MO	-	1	1	-	-	-	-	-	-	-	-
FT Leavenworth, KS	-	-	-	-	-	-	-	-	-	-	-
FT Riley, KS	-	1	-	-	-	1	1	-	1	-	-
SOUTH CENTRAL HSSA											
Brooke AMC	-	-	-	-	-	-	-	-	-	-	-
FT Hood, TX	1	-	1	-	1	-	-	-	-	-	-
FT Polk, LA	-	-	-	-	-	-	-	-	-	-	-
FT Sill, OK	-	-	-	-	-	-	-	-	-	-	-
Panama	2	3	13	1	2	3	3	3	13	-	-
SOUTHEAST HSSA											
Eisenhower AMC	-	-	-	-	-	2	-	-	1	-	-
FT Benning, GA	-	-	-	-	-	-	-	-	-	-	-
FT Bragg, NC	2	3	8	2	-	2	2	1	1	-	-
FT Campbell, KY	-	-	-	2	-	2	-	-	-	-	-
FT Jackson, SC	-	-	1	-	-	3	-	-	-	3	-
FT McClellan, AL	-	-	-	-	-	3	-	-	-	-	-
FT Rucker, AL	-	-	-	-	-	-	-	-	-	-	-
FT Stewart, GA	-	-	-	-	-	-	-	-	-	-	-
SOUTHWEST HSSA											
Wm Beaumont AMC	-	2	3	-	-	-	-	-	-	-	-
FT Huachuca, AZ	-	-	-	-	-	-	-	-	-	-	-
FT Irwin, CA	-	-	-	-	-	-	-	-	-	-	-
NORTHWEST HSSA											
Madigan AMC	1	3	2	-	-	1	2	-	2	-	-
FT Wainwright, AK	-	-	-	-	-	-	1	-	-	-	-
PACIFIC HSSA											
Tripler AMC	-	-	2	-	-	-	8	-	1	-	-
OTHER LOCATIONS											
Europe	7	3	4	-	1	-	2	3	1	-	-
Korea	1	-	2	-	-	-	-	-	-	-	-
Total	24	23	44	7	6	21	23	16	23	3	0

* Based on date of onset.

** Reports are included from main and satellite clinics. Not all sites reporting.

Date of Report: 7-Oct-95

**TABLE II. Cases of notifiable sexually transmitted diseases, United States Army.
September, 1995**

Reporting MTF/Post*	Chlamydia		Gonorrhea		Herpes Simplex		Syphilis Prim/Sec		Syphilis Latent		Urethritis non-spec.		Other STDs**	
	Cur. Month	Cum. 1995	Cur. Month	Cum. 1995	Cur. Month	Cum. 1995	Cur. Month	Cum. 1995	Cur. Month	Cum. 1995	Cur. Month	Cum. 1995	Cur. Month	Cum. 1995
NORTH ATLANTIC HSSA														
Walter Reed AMC	5	45	3	34	3	30	1	4	-	2	1	8	-	10
Aberdeen Prov. Ground	2	31	-	16	-	-	-	-	-	1	4	17	-	1
FT Belvoir, VA	7	22	1	12	-	2	-	1	-	-	-	-	1	5
FT Drum, NY	3	60	3	31	-	9	-	-	-	-	-	15	-	-
FT Eustis, VA	-	16	1	20	-	-	-	-	-	-	-	-	-	-
FT Knox, KY	23	178	4	53	8	57	-	-	-	1	-	-	-	-
FT Lee, VA	3	36	1	31	-	1	-	1	-	-	-	1	-	-
FT Meade, MD	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USMA, West Point, NY	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CENTRAL HSSA														
Fitzsimons AMC	-	33	-	7	-	2	-	-	-	1	-	-	-	2
FT Carson, CO	16	210	9	103	3	54	-	-	-	-	13	242	-	4
FT Leonard Wood, MO	2	35	3	29	1	9	-	2	-	-	3	33	-	2
FT Leavenworth, KS	-	4	-	1	-	5	-	-	-	-	-	-	-	-
FT Riley, KS	-	88	-	17	-	2	-	3	-	-	-	-	-	-
SOUTH CENTRAL HSSA														
Brooke AMC	-	1	-	-	-	-	-	-	-	-	-	-	-	-
FT Hood, TX	1	614	-	255	-	27	-	5	-	8	-	124	-	4
FT Polk, LA	6	41	-	14	-	2	-	-	-	-	-	-	-	-
FT Sill, OK	1	62	6	86	-	5	-	-	-	-	-	28	2	12
Panama	-	1	1	9	1	9	-	6	-	-	-	-	1	4
SOUTHEAST HSSA														
Eisenhower AMC	2	66	3	35	3	32	1	3	-	-	-	2	-	5
FT Benning, GA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FT Bragg, NC	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FT Campbell, KY	-	201	-	46	-	17	-	1	-	-	-	119	-	-
FT Jackson, SC	12	142	2	41	2	26	-	-	-	1	-	1	-	6
FT McClellan, AL	-	26	1	15	-	2	-	-	-	-	-	-	-	-
FT Rucker, AL	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FT Stewart, GA	-	68	-	58	-	19	-	-	-	1	-	92	-	9
SOUTHWEST HSSA														
Wm Beaumont AMC	-	107	-	13	-	4	-	-	-	-	-	-	-	3
FT Huachuca, AZ	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FT Irwin, CA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NORTHWEST HSSA														
Madigan AMC	-	-	-	-	-	-	-	-	-	-	-	-	2	3
FT Wainwright, AK	-	23	-	9	-	-	-	-	-	2	-	-	-	-
PACIFIC HSSA														
Tripler AMC	17	162	8	66	10	102	-	-	-	1	-	-	-	3
OTHER LOCATIONS														
Europe	6	62	2	8	-	1	-	-	-	-	-	-	-	5
Korea	-	21	-	12	-	5	-	-	-	1	-	-	-	5
Total	106	2355	48	1021	31	422	2	26	0	19	21	682	6	83

* Reports are included from main and satellite clinics. Not all sites reporting.

Date of Report: 7-Oct-95

** Other STDs: (a) Chancroid (b) Granuloma Inguinale (c) Lymphogranuloma Venereum (d) Syphilis unsp. (e) Syph, tertiary (f) Syph, congenital

Table 2. Antibody Titers to Adenovirus types 4 and 7. (n=81)*

Titer	Type 4	Type 7
	n (%)	n (%)
0	35 (43.2)	42 (51.9)
<1:10	20 (24.7)	11 (13.6)
>= 1:10 (protective)	26 (32.1)	28 (34.6)

* One specimen tube was empty

Continued from page 3

Jackson (MSMR, June 1995) demonstrate the outbreak potential of vaccine-preventable adenovirus disease in the Army. The military is the only consumer of adenovirus vaccines, which are produced by only one pharmaceutical company.

The Directorate of Clinical Preventive Medicine at CHPPM, performed a cost benefit analysis of the adenovirus vaccine program. Using current direct and indirect costs, net benefits exceed net costs if 368 ARD hospitalizations are prevented. Even with an adenovirus infection rate as low as 5/100 person-months, 3,241-3,662 hospitalizations would be prevented, and the benefit to cost ratio is over 3.

Therefore, it was recommended the vaccine program be continued.

The heightened Basic Training ARD surveillance program implemented in the winter of 1994-95 will continue this winter. This means the threshold for an outbreak is 1.5 ARD hospitalizations per 100 basic trainees for only one week, rather than two. And the intensified laboratory surveillance (throat specimens sent to the Viral Isolation Laboratory at Eisenhower AMC and acute and convalescent specimens sent to WRAIR) will be initiated with the recognition of an ARD outbreak or at the discretion of the local Preventive Medicine Physician.

Epidemiologic Report

Mefloquine Use in Pregnant Soldiers

In March 1993, the Office of the Surgeon General established a registry for female soldiers deployed to Somalia who inadvertently took mefloquine during pregnancy or shortly before conception. Mefloquine (Lariam) is the drug of choice for malaria chemoprophylaxis in areas of the world where chloroquine resistant *Plasmodium falciparum* malaria is prevalent. In 1993, mefloquine had not been approved for use during the first trimester of pregnancy.

All active duty women who went to Somalia and became pregnant either while taking mefloquine

or within 60 days of the last dose are eligible for the registry. The registry is managed by the Division of Preventive Medicine, Walter Reed Army Institute of Research. The purpose of the registry is to collect data about the possible effects of first trimester mefloquine exposure on fetal development and pregnancy outcome.

Information on women enrolled in the registry is collected by questionnaire completed either by the soldier, their health care provider, or WRAIR staff. There are currently 94 soldiers enrolled.

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Outcomes are known for 48 (51%) of the women (see Table 2 on page 9). There were 20 live births, 13 elective terminations of pregnancy and 11 spontaneous abortions. Of the 20 births, 3 children were reported to have abnormalities. They were: 1) intrauterine growth retardation with delivery at 34 weeks, 2) pilonidal sinus, and 3) neonatal jaundice.

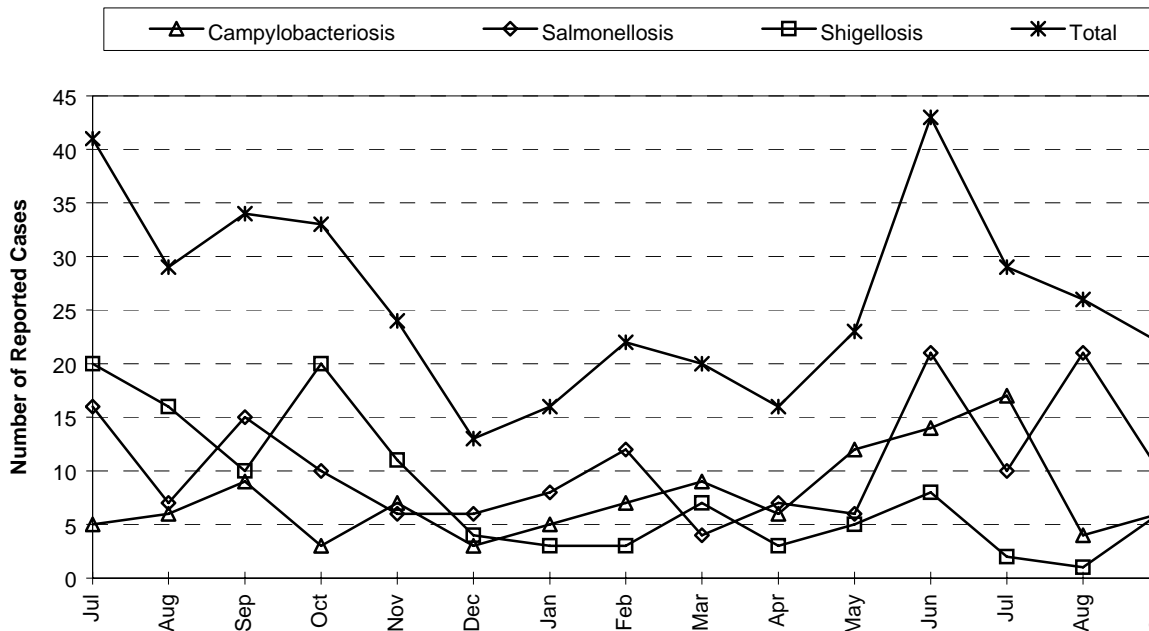
Data are still being collected for this study. No further analysis of the registry data has been conducted. It is estimated that the latest date for a Somalia-related mefloquine-exposed pregnancy to complete would have been May 1995. Therefore, data collection will continue at least through May 1996.

Submitted by JV Writer, Division of Preventive Medicine, Walter Reed Army Institute of Research, Washington, DC 20307, DSN:662-1315, commercial (202).

Editorial Comment: Mefloquine is an orally administered blood schizonticide structurally similar to quinine and chloroquine (1). It has been shown to be particularly effective for the chemoprophylaxis of chloroquine-resistant *Plasmodium falciparum* malaria (CRPF)(1,2). It is also effective against *P. vivax* (1). Toxicity testing in rats has shown possible adverse effects of mefloquine on the birth weight and survival of pups (3). Because of these findings, and an absence of data on human reproductive effects,

Surveillance Trends

Common Bacterial Causes of Diarrhea, US Army MTFs, Jul '94 - Sep '95*



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Army active duty	7	3	10	9	5	3	3	4	6	3	6	14	10	6	6
Total cases	41	39	24	33	24	13	16	22	20	16	23	43	29	26	22

* Includes confirmed cases reported through Medical Surveillance System

mefloquine was contraindicated for use in pregnant women in 1993. However, because the risk of complications or death to a fetus and mother from malaria infection appears to be greater than mefloquine exposure, the CDC does recommend that mefloquine be considered for use in pregnant women when they must enter areas with high CRPF malaria transmission.

Mefloquine is generally well tolerated, even over long-term use (2), but adverse reactions can occur. These include gastrointestinal disturbance, insomnia, and dizziness, though these generally are transient and self-limited. More severe effects have been rarely reported such as psychoses and convulsions.

Contraindications include hypersensitivity to mefloquine, or a history of epilepsy or psychiatric disorder. While it can be used in persons taking beta-blockers, it is contraindicated in persons with cardiac conduction disorders. Mefloquine is contraindicated for use in military personnel and other travelers involved in tasks that require fine motor skills and spatial discrimination, particularly pilots. (4) When mefloquine is contraindicated for military personnel or others traveling to chloroquine resistant malarious areas doxycycline may be considered. Doxycycline, however, may not be used in pregnant women or women who may become pregnant. (4)

Table 2. Outcomes for pregnant soldiers with mefloquine use.

Livebirths	20
Term, normal	17
Term, pilonidal sinus	1
Term, neonatal jaundice	1
Preterm, intrauterine growth retardation	1
Abortions	28
Elective termination of pregnancy	13
Spontaneous Abortion	11
Unknown type	4

All military personnel and other travelers should be fully briefed on the importance of personal protective measures available for preventing arthropod-borne disease. These include the proper wearing of the military uniform, use of insect repellents containing DEET, and treatment of clothes, uniforms and bednets with permethrin (Permanone).

References:

1. Palmer KJ, Holliday SM and Brogden RN. Mefloquine, A review of its antimalarial activity, pharmacokinetic properties and therapeutic efficacy. *Drugs* 45:430-475. 1993.
2. Lobel HO, Miani M, Eng T et al. Long-term malaria prophylaxis with weekly mefloquine. *Lancet* 341: 848-851. 1993.
3. Minor JL, Short RD, Heiffer MH and Lee CC. Reproductive effects of mefloquine HCV (MFQ) in rats and mice. *Pharmacologist* 18:171. 1976.
4. Centers for Disease Control. Health Information for International Travel. US Government Printing Office, Washington, D.C., pp105-114. 1994.

TABLE S1. Notifiable conditions reported through Medical Surveillance System, Jan-Sep 1995*

Diagnosis	Jan '95	Feb '95	Mar '95	Apr '95	May '95	Jun '95	Jul '95	Aug '95	Sep '95	Total
Amebiasis	-	-	-	-	-	-	-	1	2	3
Anthrax	-	-	-	-	-	-	-	-	-	0
Arboviral fever, unsp	-	-	-	-	-	-	-	-	-	0
Asbestosis	-	-	-	-	-	-	-	-	-	0
Botulism (adult)	-	-	-	-	-	-	-	-	-	0
Botulism (infant)	-	-	1	-	-	-	-	-	-	1
Brucellosis	-	-	-	-	-	-	-	-	-	0
Campylobacteriosis	5	7	9	6	12	14	17	4	6	80
Carbon monoxide intx	2	3	-	-	-	-	-	-	-	5
Chancroid	-	-	-	-	-	-	1	-	1	2
Chemical agent exp	-	27	-	1	-	-	-	-	-	28
Chlamydia	301	266	275	293	301	276	326	211	106	2355
Cholera	-	-	-	-	-	-	-	-	-	0
Coccidioidomycosis	1	-	-	-	1	-	1	-	-	3
CWI, unspecified	3	-	-	-	-	-	-	-	-	3
CWI, frostbite	15	21	9	-	-	-	-	-	-	45
CWI, hypothermia	-	8	1	-	-	-	-	-	-	9
CWI, immersion type	2	6	4	-	-	-	-	-	-	12
Dengue fever	-	-	-	-	-	-	-	-	-	0
Diphtheria	-	-	-	-	-	-	-	-	-	0
Ehrlichiosis	-	-	-	-	-	-	2	-	-	2
Encephalitis	2	-	-	-	-	-	1	2	1	6
Fatality, trainee	-	-	-	-	-	-	1	-	1	2
Fatality, occupat.	-	-	-	-	-	-	-	-	-	0
Giardiasis	-	3	2	1	5	6	6	5	2	30
Gonorrhea	176	131	115	124	126	97	104	100	48	1021
Granuloma Inguinale	-	-	-	-	-	-	-	-	-	0
Guillain-Barre Syndrome	-	-	1	-	-	-	-	-	-	1
H. influenzae, inv	-	-	-	-	-	-	-	-	-	0
Heat exhaustion	1	2	-	1	20	23	58	18	1	124
Heat stroke	-	-	-	3	6	4	14	9	3	39
Hemorrhagic fever	-	-	-	-	-	1	-	-	-	1
Hepatitis A, Acute	3	-	-	3	1	1	3	3	1	15
Hepatitis B, Acute	4	3	2	6	4	6	7	4	4	40
Hepatitis C, Acute	-	2	2	1	1	2	-	-	-	8
Hepatitis, unspec	-	-	5	4	2	-	-	-	-	11
Herpes Simplex	32	39	59	58	53	63	39	48	31	422
Influenza, unspec.	-	-	-	-	-	-	-	-	-	0
Influenza, type A	10	15	3	1	1	-	-	-	-	30
Influenza, type B	-	1	4	3	-	-	-	-	-	8
Kawasaki syndrome	-	-	-	1	1	-	-	1	-	3
Lead poisoning	-	-	-	-	-	1	-	-	-	1
Legionellosis	2	-	-	-	-	-	-	-	-	2
Leish, unspecified	-	-	-	-	-	-	-	-	-	0
Leish, cutaneous	-	-	2	-	-	-	-	-	-	2
Leish, mucocutaneous	-	-	-	-	-	-	-	-	-	0
Leish, visceral	-	-	-	-	-	-	-	-	-	0
Leish, viscerotropic	-	-	-	-	-	-	-	-	-	0
Leprosy	-	-	-	-	-	-	-	-	-	0
Leptospirosis	-	-	-	-	-	-	1	-	-	1
Listeriosis	-	-	-	-	-	-	-	-	-	0
Lyme disease	1	1	1	1	1	3	3	-	-	11
Lymphogranuloma Vnrm	1	2	1	1	4	-	-	-	-	9

(Continued)

TABLE S1. Notifiable conditions reported through Medical Surveillance System* (continued).

Diagnosis	Jan '95	Feb '95	Mar '95	Apr '95	May '95	Jun '95	Jul '95	Aug '95	Sep '95	Total
Malaria, unspecified	1	-	-	-	-	1	-	-	-	2
Malaria, vivax	1	1	1	2	1	1	1	2	-	10
Malaria, falciparum	-	-	1	1	1	-	-	-	-	3
Malaria, malariae	-	-	-	-	-	1	-	-	-	1
Malaria, ovale	-	-	-	-	-	-	1	-	-	1
Measles	1	1	-	-	2	-	-	-	-	4
Meningitis, Viral	2	8	6	7	7	13	12	3	1	59
Meningitis, Bact.	1	5	5	3	2	3	-	-	-	19
Mercury intoxication	-	-	-	-	-	-	-	-	-	0
Mumps (adults only)	1	2	1	-	-	-	-	-	1	5
Mycobacterial inf.	1	-	1	-	2	-	-	-	-	4
Pertussis	-	1	-	-	-	3	3	-	1	8
Plague	-	-	-	-	-	-	-	-	-	0
Pneumococcal pneum.	-	6	14	5	1	-	-	-	-	26
Poliomyelitis	-	-	-	-	-	-	-	-	-	0
Psittacosis	-	-	-	-	-	-	-	1	-	1
Q fever	-	-	-	-	-	-	-	-	-	0
Rabies, human	-	-	-	-	-	-	-	-	-	0
Radiation, ionizing	-	-	-	-	-	-	-	-	-	0
Radiation, non-ionizing	-	-	-	-	-	-	-	-	-	0
Relapsing fever	-	-	-	-	-	-	-	-	-	0
Reye syndrome	-	-	-	-	-	-	-	-	-	0
Rhabdomyolysis	-	2	5	6	2	-	3	7	5	30
Rheumatic fever	-	-	-	-	-	-	-	-	-	0
Rift Valley Fever	-	-	-	-	-	-	-	-	-	0
RMSF	-	-	-	-	-	-	1	-	-	1
Rubella	-	-	-	1	-	-	-	-	-	1
Salmonellosis	8	12	4	7	6	21	10	21	10	99
Schistosomiasis	-	-	-	-	-	-	-	-	-	0
Shigellosis	3	3	7	3	5	8	2	1	6	38
Smallpox	-	-	-	-	-	-	-	-	-	0
Syphilis, unspec.	4	2	1	2	5	2	5	2	1	24
Syphilis, prim/sec	9	4	5	1	1	1	2	1	2	26
Syphilis, latent	4	5	1	2	-	2	4	1	-	19
Syphilis, tertiary	2	-	-	1	2	1	-	1	-	7
Syphilis, congenital	-	-	-	-	-	-	1	-	-	1
Tetanus	-	-	-	-	-	-	-	-	-	0
Toxic shock syndrome	-	-	-	-	-	-	-	-	1	1
Toxoplasmosis	-	-	-	-	-	-	-	-	-	0
Trichinellosis	-	-	1	-	-	-	-	-	-	1
Trypanosomiasis,Afr	-	-	-	-	-	-	-	-	-	0
Trypanosomiasis,Amer	-	-	-	-	-	-	-	-	-	0
Tuberculosis (TB)	5	1	5	1	3	1	2	2	1	21
TB, multi-drug resistant	-	-	-	-	-	-	-	-	-	0
Tularemia	-	-	1	-	-	-	-	-	-	1
Typhoid fever	-	-	-	-	-	-	1	-	-	1
Typhus fever	-	-	-	-	-	-	-	-	-	0
Urethritis, Non-specific	110	85	79	73	86	83	92	53	21	682
Vaccine advrs event	1	-	-	-	-	-	-	3	-	4
Varicella,adult only	39	34	24	21	14	14	6	1	1	154
Yellow fever	-	-	-	-	-	-	-	-	-	0
Total	754	709	658	644	679	652	730	505	258	5589

* Based on date of onset.

TABLE S2. Reported heat and cold weather injuries, United States Army, Jan-Sep 1995*

Reporting MTF/Post**	Heat Injuries				Cold Weather Injuries							
	Heat Exhaustion		Heat Stroke		Frostbite		Hypothermia		Immersion		Unspecified	
	M	F	M	F	M	F	M	F	M	F	M	F
NORTH ATLANTIC HSSA												
Walter Reed AMC	-	-	-	-	-	-	-	-	-	-	-	-
Aberdeen Prov. Ground	-	-	-	-	-	-	-	-	-	-	-	-
FT Belvoir, VA	1	-	-	-	-	-	-	-	-	-	-	-
FT Drum, NY	3	-	1	-	13	2	-	-	5	1	-	-
FT Eustis, VA	-	-	-	-	-	-	-	-	-	-	-	-
FT Knox, KY	-	-	-	-	-	-	-	-	-	-	-	-
FT Lee, VA	1	3	1	-	-	-	-	-	-	-	-	-
FT Meade, MD	-	-	-	-	-	-	-	-	-	-	-	-
USMA, West Point, NY	-	-	-	-	-	-	-	-	-	-	-	-
CENTRAL HSSA												
Fitzsimons AMC	-	-	-	-	-	-	-	-	-	-	-	-
FT Carson, CO	-	-	-	-	-	-	-	-	-	-	-	-
FT Leonard Wood, MO	3	-	-	-	-	1	-	-	-	-	-	-
FT Leavenworth, KS	-	-	-	-	-	-	-	-	-	-	-	-
FT Riley, KS	7	4	-	-	-	-	1	-	-	-	-	-
SOUTH CENTRAL HSSA												
Brooke AMC	-	-	-	-	-	-	-	-	-	-	-	-
FT Hood, TX	12	2	-	-	-	-	-	-	-	-	-	-
FT Polk, LA	1	-	4	-	-	-	-	-	-	-	-	-
FT Sill, OK	16	1	1	1	-	-	-	-	-	-	-	-
Panama	4	-	-	-	-	-	-	-	-	-	-	-
SOUTHEAST HSSA												
Eisenhower AMC	-	-	-	-	-	-	-	-	-	-	-	-
FT Benning, GA	7	2	17	-	3	-	7	-	4	-	-	-
FT Bragg, NC	4	1	2	1	-	-	-	-	-	-	-	-
FT Campbell, KY	-	-	-	-	-	-	-	-	-	-	-	-
FT Jackson, SC	-	-	-	-	-	-	-	-	-	-	-	-
FT McClellan, AL	1	-	-	-	-	-	-	-	-	-	-	-
FT Rucker, AL	2	1	-	-	-	-	-	-	-	-	-	-
FT Stewart, GA	-	-	-	-	-	-	-	-	-	-	-	-
SOUTHWEST HSSA												
Wm Beaumont AMC	-	-	-	-	-	-	-	-	-	-	-	-
FT Huachuca, AZ	-	-	-	-	-	-	-	-	-	-	-	-
FT Irwin, CA	-	-	-	-	-	-	-	-	-	-	-	-
NORTHWEST HSSA												
Madigan AMC	-	-	-	-	-	-	-	-	-	-	-	-
FT Wainwright, AK	-	-	-	-	10	7	-	-	-	-	-	-
PACIFIC HSSA												
Tripler AMC	1	-	3	-	-	-	-	-	-	-	-	-
OTHER LOCATIONS												
Europe	2	-	-	-	-	-	-	-	-	1	2	1
Korea	-	-	1	1	3	-	-	-	-	-	-	-
Total	65	14	30	3	29	10	8	0	9	2	2	1

* Army active duty cases only.

** Reports are included from main and satellite clinics. Not all sites reporting.

Date of Report:

7-Oct-95

TABLE S3. Cases of notifiable sexually transmitted diseases, United States Army, Jan-Sep 1995*

Reporting MTF/Post**	Chlamydia				Urethritis non-spec.				Gonorrhea				Herpes Simplex				Syphilis Prim/Sec				Syphilis Latent			
	Active Duty		Other		Active Duty		Other		Active Duty		Other		Active Duty		Other		Active Duty		Other		Active Duty		Other	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
NORTH ATLANTIC HSSA																								
Walter Reed AMC	5	13	3	24	8	-	-	-	12	2	11	9	7	8	5	10	-	1	2	1	1	-	-	1
Aberdeen Prov. Ground	6	12	1	11	16	-	1	-	9	3	3	1	-	-	-	-	-	-	-	-	1	-	-	-
FT Belvoir, VA	3	6	2	11	-	-	-	-	5	-	1	6	-	-	-	2	-	1	-	-	-	-	-	-
FT Drum, NY	32	15	-	13	15	-	-	-	27	1	2	1	7	1	-	1	-	-	-	-	-	-	-	-
FT Eustis, VA	7	9	-	-	-	-	-	-	17	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
FT Knox, KY	54	30	11	83	-	-	-	-	37	1	4	11	19	10	4	24	-	-	-	-	-	-	-	1
FT Lee, VA	7	23	1	5	1	-	-	-	18	6	5	2	1	-	-	-	1	-	-	-	-	-	-	-
FT Meade, MD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USMA, West Point, NY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CENTRAL HSSA																								
Fitzsimons AMC	1	2	7	23	-	-	-	-	3	-	2	2	-	-	-	2	-	-	-	-	-	-	1	-
FT Carson, CO	79	41	9	81	206	-	36	-	71	21	2	9	22	12	3	17	-	-	-	-	-	-	-	-
FT Leonard Wood, MO	7	8	2	18	24	-	9	-	17	5	-	7	4	2	1	2	1	-	-	1	-	-	-	-
FT Leavenworth, KS	1	-	-	3	-	-	-	-	-	-	1	-	-	1	1	3	-	-	-	-	-	-	-	-
FT Riley, KS	17	15	-	56	-	-	-	-	8	2	-	7	-	1	-	1	3	-	-	-	-	-	-	-
SOUTH CENTRAL HSSA																								
Brooke AMC	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FT Hood, TX	215	246	7	145	117	1	6	-	180	45	6	22	19	3	2	3	2	2	-	1	4	1	-	3
FT Polk, LA	12	8	4	17	-	-	-	-	7	3	2	2	1	-	1	-	-	-	-	-	-	-	-	-
FT Sill, OK	32	15	4	11	19	7	-	2	63	6	6	11	4	1	-	-	-	-	-	-	-	-	-	-
Panama	-	-	-	-	-	-	-	-	3	3	-	3	2	2	-	5	-	-	-	6	-	-	-	-
SOUTHEAST HSSA																								
Eisenhower AMC	21	21	4	20	2	-	-	-	21	6	4	4	17	8	1	6	2	-	1	-	-	-	-	-
FT Benning, GA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FT Bragg, NC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FT Campbell, KY	29	106	-	64	111	2	6	-	33	7	-	6	13	1	1	2	1	-	-	-	-	-	-	-
FT Jackson, SC	19	103	1	19	1	-	-	-	14	20	4	3	3	13	2	8	-	-	-	-	1	-	-	-
FT McClellan, AL	12	7	4	3	-	-	-	-	5	5	2	3	-	-	1	1	-	-	-	-	-	-	-	-
FT Rucker, AL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FT Stewart, GA	2	35	1	30	88	1	3	-	46	7	1	4	11	5	-	3	-	-	-	-	-	-	1	-
SOUTHWEST HSSA																								
Wm Beaumont AMC	24	25	4	54	-	-	-	-	4	5	-	4	2	1	-	1	-	-	-	-	-	-	-	-
FT Huachuca, AZ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FT Irwin, CA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NORTHWEST HSSA																								
Madigan AMC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FT Wainwright, AK	7	11	-	5	-	-	-	-	5	1	1	2	-	-	-	-	-	-	-	-	-	1	1	-
PACIFIC HSSA																								
Tripler AMC	61	33	5	63	-	-	-	-	44	5	1	16	34	22	3	43	-	-	-	-	1	-	-	-
OTHER LOCATIONS																								
Europe	24	14	-	19	-	-	-	-	5	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-
Korea	6	13	-	1	-	-	-	-	9	2	-	1	2	2	1	-	-	-	-	-	-	-	-	1
Sub-Total	683	812	70	779	608	11	61	2	663	159	60	137	169	93	26	134	9	5	3	9	7	3	3	6
Total	1495		849		619		63		822		197		262		160		14		12		10		9	

* Active Duty refers to Army Active Duty only.

** Reports are included from main and satellite clinics. Not all sites reporting.

Date of Report: 7-Oct-95

ARD Surveillance UpdateLegend

—	ARD Rate	= (ARD cases / Trainees) * 100
■ ■ ■	SASI*	= ARD Rate * Strep Rate**

FT Benning

Ft Jackson

Ft Knox

Ft Leonard
Wood

Ft McClellan

Ft Sill

Table IV. ARD surveillance rates, submitted by Army TRADOC posts

* Strep/ARD Surveillance Index (SASI)

**Strep Rate = (GABHS(+)) / Cultures) * 100

Note: SASI has proven to be a reliable predictor of serious strep-related morbidity, especially acute rheumatic fever.

TABLE S4. Active Duty Force Strength by MTF, United States Army, Jun 1995*

MTF/Post**	Males							Females							All
	< 20	20-24	25-29	30-34	35-39	>= 40	Total M	< 20	20-24	25-29	30-34	35-39	>= 40	Total F	
NORTH ATLANTIC HSSA															
Walter Reed AMC	68	1501	1440	1615	2048	3632	10304	22	423	598	543	520	573	2679	12983
Aberdeen Prov. Ground	136	712	399	466	519	413	2645	32	151	94	68	46	32	423	3068
FT Belvoir, VA	2	360	439	396	369	483	2049	6	130	134	101	99	76	546	2595
FT Drum, NY	228	3855	2425	1499	1013	642	9662	25	395	199	130	79	38	866	10528
FT Eustis, VA	118	1472	1118	1058	928	922	5616	35	412	324	200	142	95	1208	6824
FT Knox, KY	927	3834	2013	1799	1654	1076	11303	13	261	262	183	173	96	988	12291
FT Lee, VA	154	1004	669	625	579	494	3525	154	575	291	212	145	62	1439	4964
FT Meade, MD	12	862	1157	1099	998	1234	5362	6	295	318	272	242	162	1295	6657
USMA, West Point, NY	7	592	634	915	913	810	3871	9	133	112	147	117	93	611	4482
CENTRAL HSSA															
Fitzsimons AMC	15	177	242	218	235	266	1153	4	88	115	74	68	75	424	1577
FT Carson, CO	260	5146	4123	2681	1766	1125	15101	22	695	564	300	189	93	1863	16964
FT Leonard Wood, MO	925	2378	1248	1071	910	530	7062	277	598	261	206	116	77	1535	8597
FT Leavenworth, KS	24	295	324	407	766	720	2536	3	84	80	72	99	48	386	2922
FT Riley, KS	255	4689	3197	2010	1459	841	12451	26	571	380	234	166	81	1458	13909
SOUTH CENTRAL HSSA															
Brooke AMC	141	1098	1124	1071	990	1138	5562	119	503	436	405	334	321	2118	7680
FT Hood, TX	809	13588	9978	6203	4501	2766	37845	144	2138	1532	864	557	312	5547	43392
FT Polk, LA	178	3047	2031	1456	1041	580	8333	25	450	302	176	113	78	1144	9477
FT Sill, OK	1171	5386	3001	1969	1568	913	14008	28	437	319	215	134	77	1210	15218
Panama	31	1303	1398	1048	862	714	5356	11	233	190	141	112	65	752	6108
SOUTHEAST HSSA															
Eisenhower AMC	452	2255	1505	1313	1598	1422	8545	117	607	482	393	316	292	2207	10752
FT Benning, GA	1436	5839	3449	2295	1600	951	15570	33	422	349	244	140	73	1261	16831
FT Bragg, NC	666	13517	10084	6970	4854	2927	39018	60	1557	1218	729	451	238	4253	43271
FT Campbell, KY	428	7300	5815	3579	2251	1260	20633	54	892	639	348	224	97	2254	22887
FT Jackson, SC	1363	2491	981	899	733	456	6923	635	1368	496	340	177	84	3100	10023
FT McClellan, AL	312	969	562	708	669	531	3751	120	388	195	150	123	66	1042	4793
FT Rucker, AL	31	845	1220	808	577	552	4033	13	202	170	104	66	38	593	4626
FT Stewart, GA	387	6662	4752	2788	2006	1150	17745	54	768	646	379	212	122	2181	19926
SOUTHWEST HSSA															
Wm Beaumont AMC	293	3315	2621	1746	1476	1248	10699	50	617	434	265	187	186	1739	12438
FT Huachuca, AZ	94	1203	1059	960	783	639	4738	55	349	239	182	157	101	1083	5821
FT Irwin, CA	88	1389	987	748	585	360	4157	7	178	125	79	51	26	466	4623
NORTHWEST HSSA															
Madigan AMC	256	4778	3857	2903	2115	1671	15580	55	947	721	429	297	246	2695	18275
FT Wainwright, AK	73	2123	1713	1130	741	392	6172	27	275	194	166	97	60	819	6991
PACIFIC HSSA															
Tripler AMC	158	5429	4293	2794	2000	1348	16022	20	694	668	446	334	234	2396	18418
OTHER LOCATIONS															
Europe	646	18475	16328	11356	8535	5595	60935	117	2985	2417	1678	1174	674	9045	69980
Korea	662	8230	6284	4473	3737	2440	25826	129	1461	1051	757	516	290	4204	30030
Unknown	448	5029	4938	6720	5644	4608	27940 [§]	82	672	655	733	613	346	3222 [§]	31884 [§]
Total	13254	141148	107408	79796	63023	46849	452031	2589	22954	17210	11965	8586	5627	69052	521805

* Based on duty zip code. Does not account for TDY.

§ Includes unknown age groups and unknown gender.

** Includes any subordinate catchment areas not listed separately.

Source: Defense Manpower Data Center (DMDC)

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